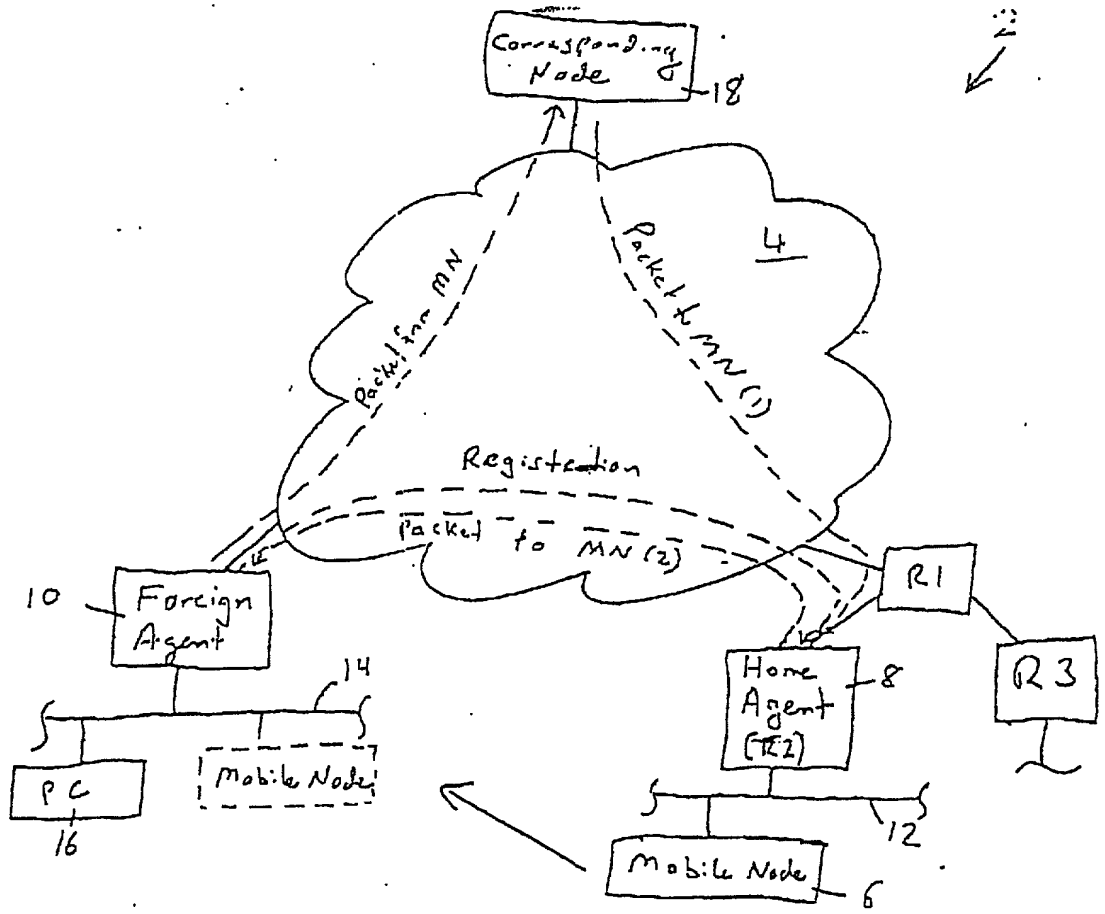
Corresponding Node
18
4
Packet for MN
Packet to MN (1)
Registration
Packet to MN (2)
10
Foreign Agent
14
PC
16
Mobile Node
Home Agent (R2)
8
R1
R3
12
Mobile Node
6

FIG. 1

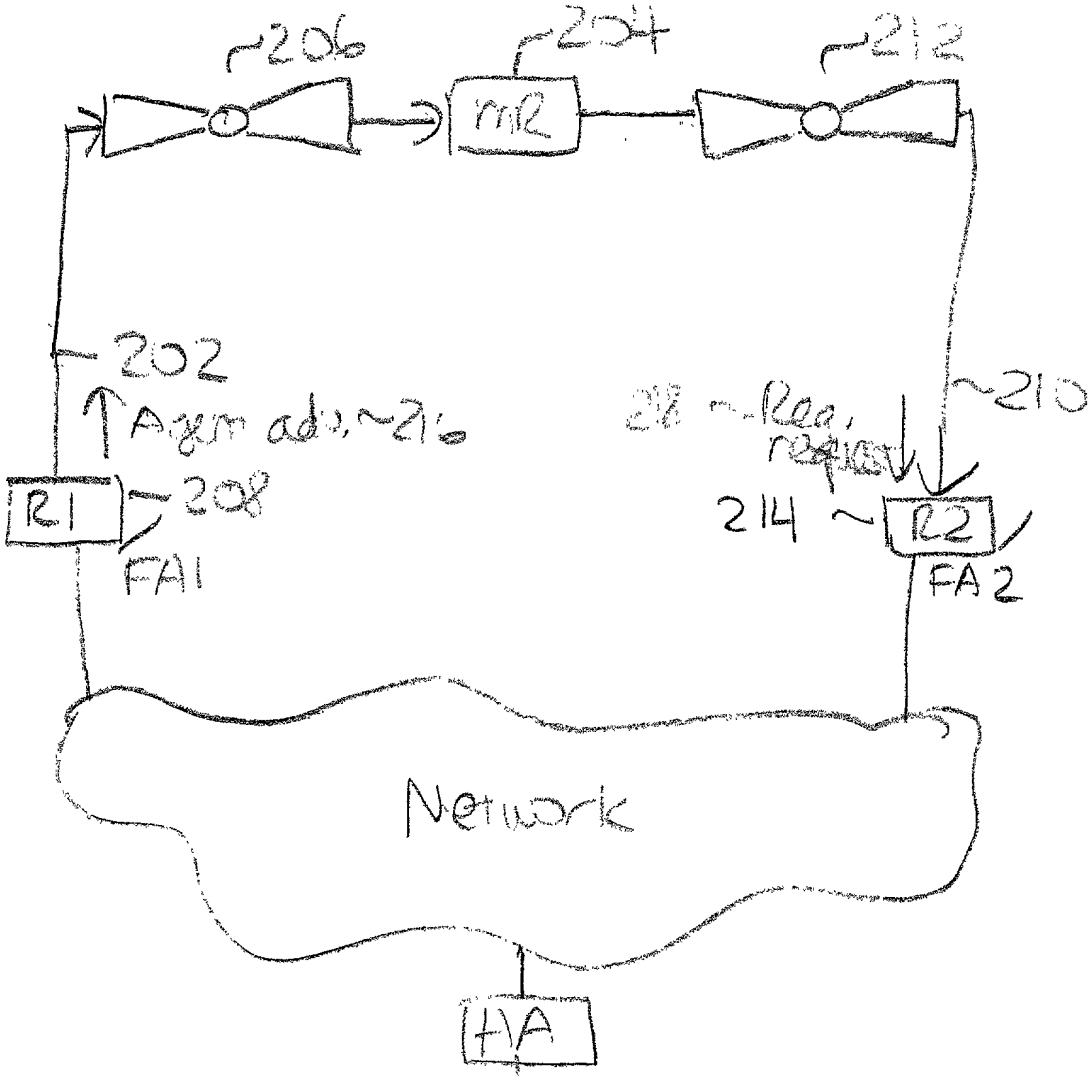
206
204
MR
212
202
Agent adv, 216
216 Reg. request
210
R1
208
214
R2
FA1
FA2
Network
HA

FIG. 2

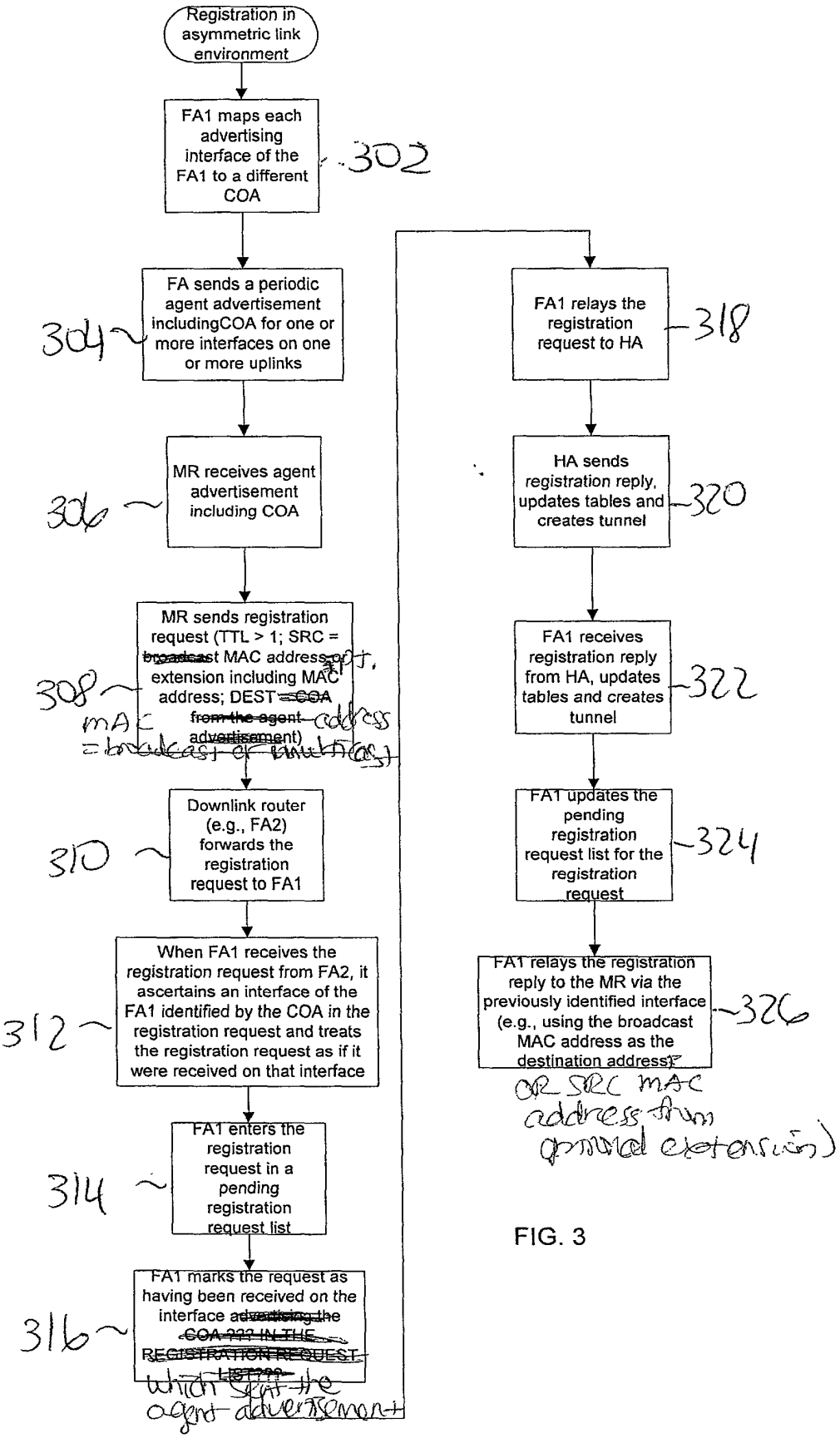
Registration in asymmetric link environment
FA1 maps each advertising interface of the FA1 to a different COA
302
FA sends a periodic agent advertisement includingCOA for one or more interfaces on one or more uplinks
304
MR receives agent advertisement including COA
306
MR sends registration request (TTL > 1; SRC = broadcast MAC address of I, extension including MAC address; DEST = COA from the agent advertisement)
308
MAC = broadcast or unicast
Downlink router (e.g., FA2) forwards the registration request to FA1
310
When FA1 receives the registration request from FA2, it ascertains an interface of the FA1 identified by the COA in the registration request and treats the registration request as if it were received on that interface
312
FA1 enters the registration request in a pending registration request list
314
FA1 marks the request as having been received on the interface advertising the COA ??? IN THE REGISTRATION REQUEST LIST???
316
which sent the agent advertisement
FA1 relays the registration request to HA
318
HA sends registration reply, updates tables and creates tunnel
320
FA1 receives registration reply from HA, updates tables and creates tunnel
322
FA1 updates the pending registration request list for the registration request
324
FA1 relays the registration reply to the MR via the previously identified interface (e.g., using the broadcast MAC address as the destination address)
326
OR SRC MAC address from original extension)

FIG. 3

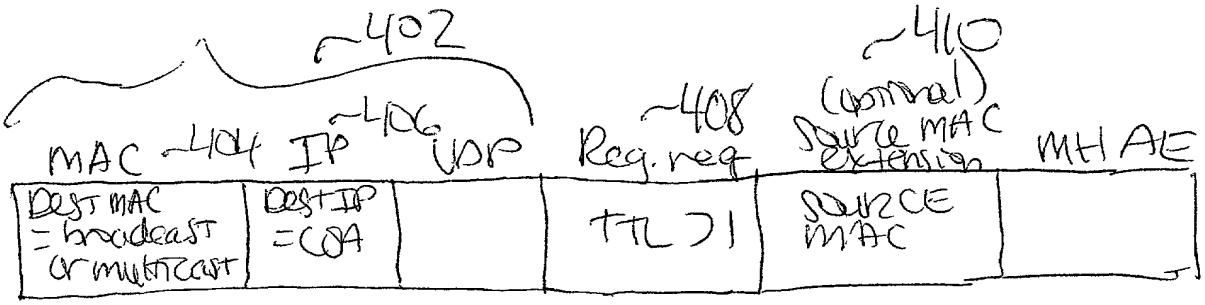
~402
MAC ~404
IP ~406
UDP
~408
Reg. req
~410
(optional)
Source MAC extension
MH AE
Dest MAC = broadcast or multicast
Dest IP = COA
TTL 31
SOURCE MAC

FIG. 4

08823T-1382S203

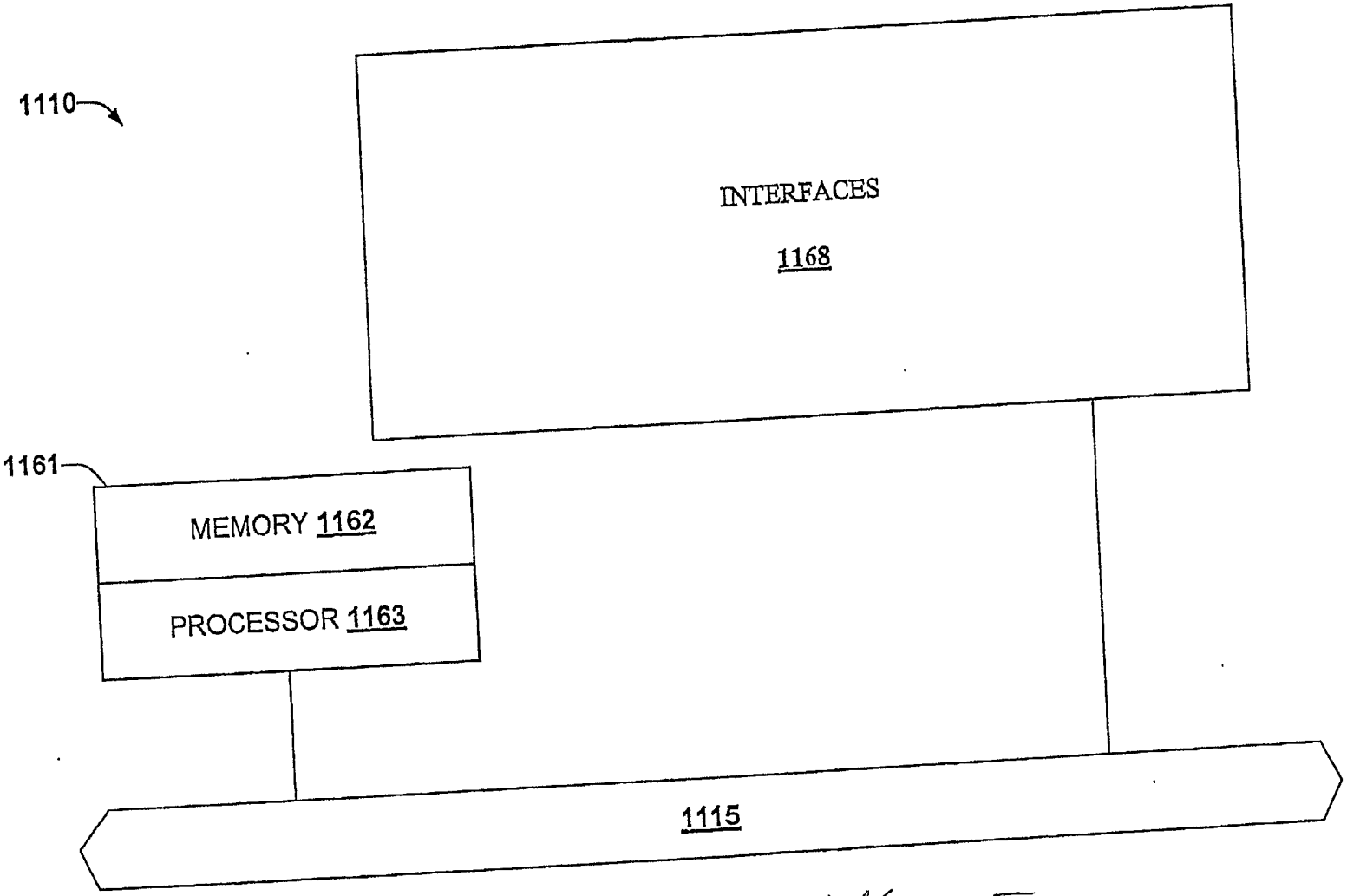

Figure 11 X2 X5